Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Original) A composition comprising a polymeric material having a rheology such that the slope (or S) determined by linear least squares regression, of a plot of the natural log of loss modulus (or G") versus natural log of storage modulus (or G') is greater than [0.635*(melt index)+13.2]/[(melt index)+16.6], and wherein the polymeric material has a CDF RI fraction less than 0.23 of a GPC chromatogram which has a molecular weight above 85,000 g/mol, and a CDF LS fraction of more than 0.07 at a conventional GPC molecular weight of 1,750,000 g/mol or greater.
- 2. (Original) The composition of Claim 1 wherein the polymeric material has a melt strength less than about 5 cN.
- 3. (Original) The composition of Claim 1 wherein the polymeric material comprises LDPE.
- 4. (Original) The composition of Claim 1 wherein the polymeric material comprises a blend of at least two polymeric materials.
- 5. (Original) The composition of Claim 1 wherein the polymeric material comprises Linear PE.
- 6. (Original) The composition of Claim 3 wherein the LDPE comprises a high molecular weight highly branched component with an MWD greater than 10 and a Mw(absolute)/Mw(GPC) ratio greater than 3.0.
- 7. (Original) The composition of Claim 6 wherein the LDPE is made in an autoclave reactor with chilled ethylene feed below 35°C operating in single phase mode.
- 8. (Original) The composition of Claim 1 wherein the polymeric material has a melt index greater than 10 g/10min.

- 9. (Original) The composition of Claim 8 wherein the polymeric material has a melt index greater than about 13 g/10min.
- 10. (Original) The composition of Claim 8 wherein the polymeric material has a melt index less than about 100 g/10min.
- 11. (Original) The composition of Claim 1 wherein the polymeric material has a Mark-Houwink plot where the slope is less than 0.25 in the absolute molecular weight range between 300,000 and 3,000,000 g/mol.
- 12. (Original) The composition of Claim 1 wherein the value for S is at least 1% greater than [0.635*(melt index)+13.2]/[(melt index)+16.6].
- 13. (Original) The composition of Claim 12 wherein the value for S is at least 2% greater than [0.635*(melt index)+13.2]/[(melt index)+16.6].
- 14. (Original) The composition of Claim 1 wherein the polymeric material has a CDF RI fraction less than 0.21 of a GPC chromatogram which has a molecular weight above 85,000 g/mol.
- 15. (Original) The composition of Claim 1 wherein the polymeric material has a CDF RI fraction less than 0.20 of a GPC chromatogram which has a molecular weight above 85,000 g/mol.
- 16. (Original) The composition of Claim 1 wherein the polymer material has a CDF LS fraction greater than 0.09 of a GPC chromatogram which has a molecular weight above 1,750,000 g/mol.
 - 17. (currently cancelled)
- 18. (Withdrawn) In a process for extruding a polymeric material onto a substrate, the improvement comprising: using a polymeric material having a rheology such that the slope (or S) determined by linear least squares regression, of a natural log-natural log plot of loss modulus (or G'') versus storage modulus (or G') is greater than [0.635*(melt index)+13.2]/[(melt index)+16.6].
- 19. (Withdrawn) The process of Claim 18 wherein the neck-in observed is less than 3 inches when running at a line speed of 440 ft/min.

- 20. (Withdrawn) The process of Claim 18 wherein the neck-in observed is less than 2.5 inches when running at a line speed of 440 ft/min.
- 21. (Withdrawn) The process of Claim 18 wherein the neck-in observed is less than 2 inches when running at a line speed of 440 ft/min.
- 22. (Withdrawn) The process of Claim 18 wherein the draw down is at least 1500 ft/min.
- 23. (Withdrawn) The process of Claim 18 wherein the polymeric material has a melt strength of less than 5 cN.
- 24. (Withdrawn) A polymeric film layer having a rheology such that the slope (or S) determined by linear least squares regression, of a natural log-natural log plot of loss modulus (or G") versus storage modulus (or G') is greater than [0.665*(melt index)+14.2]/[(melt index)+16.6], and wherein the polymeric material has a CDF RI fraction less than 0.23 of a GPC chromatogram which has a molecular weight above 85,000 g/mol, and a CDF LS fraction of more than 0.07 at a conventional GPC molecular weight of 1,750,000 g/mol or greater.
- 25. (Withdrawn) The film layer of claim 24 wherein the layer has a CDF LS fraction of more than 0.09 at a conventional GPC molecular weight of 1,750,000 g/mol or greater.
- 26. (Withdrawn) The film layer of Claim 24 in which the film layer was produced using an extrusion coating, extrusion lamination, or cast film process.
 - 27. (Withdrawn) A composition of matter comprising:
 - a. from about 10 to about 25 percent by weight of the composition of a high pressure low density type polyethylene resin having a melt index (I_2) less than about 2, a molecular weight distribution greater than about 10, a Mw(absolute)/Mw(GPC) ratio greater than about 3.0, and a melt strength greater than about 24.1 18.0*log10(MI); and
 - b. from about 90 to about 75 percent by weight of the composition, of a Linear PE having a density in the range of 0.97-0.857 g/cc and a melt index (I₂) in the range of 20-100;

wherein the MI of the composition of matter is greater than about 10 g/10 minutes.

- 28. (Withdrawn) The composition of Claim 27 in which component a) has a melt index (I_2) less than about 1 g/10 minutes.
- 29. (Withdrawn) The composition of Claim 27 wherein the composition has a melt strength less than about 5 cN.
- 30. (Withdrawn) The composition of Claim 27 wherein the Mw(absolute)/Mw(GPC) ratio of component (a) is greater than 3.2.
- 31. (Withdrawn) The composition of Claim 27 wherein the Mw(absolute)/Mw(GPC) ratio of component (a) is greater than 3.5.